

# Industry Trends

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# Background

- Improving Industry Trends an Important Impetus for Revising ROP
- Reported Annually to Congress on Strategic Plan Measure of “No Statistically Significant Adverse Industry Trends in Safety Performance”
- Used Indicators from Former AEOD and Accident Sequence Precursor (ASP) Program

# Purpose

- Process Provides Means to Confirm That Operating Reactor Safety Performance Is Being Maintained by the Nuclear Industry
- Complements ROP and Processes for Addressing Generic Issues and Evaluating Operating Experience
  - Generic Communications Process in NRR
  - Generic Safety Issues Process in RES

# Objectives

- Collect and Monitor Industry-Wide Data
- Assess the Significance and Causes for Adverse Industry Trends
- Respond Appropriately to Any Safety Issues
- Communicate Results and Actions to Congress and Other Stakeholders

# Approach

- Used Existing Programs for Initial Set of Indicators (AEOD Indicators, ASP Program, ROP PIs, Operating Experience in RES)
- Based on Quantitative Industry-wide Data
- Trends Identified Using Long Term Data Vice Short Term ( $\leq 4$  Years)
- Statistically Significant Adverse Trends Are Evaluated and Agency Response Will Be Commensurate with Safety Significance
- New Indicators Qualified for Use in Phases

# Process

- Identification of Statistically Significant Adverse Trends
- Evaluation to Determine Extent of Underlying Issues and Possible Root Causes
- Agency Response IAW Generic Communication Process (SECY-99-143) and Generic Issues Process
- Review of Results of Investigations and Actions at AARM

# Communications

- Industry Indicators Published on NRC Web Site as They Are Developed - Quarterly Updates
- Annual Report to Commission
- Annual Report to Congress in NRC Performance and Accountability Report

# Results to Date

- No Statistically Significant Adverse Industry Trends in Safety Performance Identified
  - Ex-AEOD Indicators
  - ASP Program
- Insufficient Data (<4 Years) on ROP Indicators for Long Term Trending (However, No Issues Identified by Review of Short Term Data)



# Future Development

- RES Update of Initiating Events Data and Data for Reliability and Special Studies
- RES and NRR to Develop More Risk-Informed Methods to Assess Significance of Trends in Individual Indicators, Including Thresholds and Pre-Defined Agency Responses
- Continued Evolution of Process